PAGE 1/8 * RCVD AT 8/4/2004 7:01:49 AM [Eastern Daylight Time] * SVR:USPTO-EFXRF-1/0 * DNIS:8729306 * CSID:07121933810 * DURATION (mm-ss):02-46

Application/Control Number: 09/944,564

Art Unit: 1623

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AUG 0 4 2004

USPTO

Examiner Patrick T. Lewis, PhD Fax Number: 001-703-872-9306

OFFICIAL

BY TELEFAX – 5 pages + table of comparison (page 6)+ covering letter and Filing Receipt

August 4, 2004

Response to Detailed Office Action dated May 5, 2004

Dear Examiner,

In response to the above-identified Office Action, please find herewith a response regarding Election/Restriction of the invention. Results of statistical analysis of the clinical trial and annexes will be sent by mail.

Best regards.

Yours Sincerely,

Dr. Nida Nassief

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Response to Office Action dated May 5, 2004.

Applicant's Response dated February 11, 2004

Page 2 of the Office Action:

No response.

Election/Restriction

Page 3 of the Office Action:

<u>Invention 1</u> as identified by the examiner in the Detailed Office Action "a pharmaceutical composition consisting essentially of glycophosphopeptical and a method of treatment of allergy and asthma" <u>have been elected</u>. This invention includes claims 25-27 inclusive.

The non-elected claims will be withdrawn. According to the Office Action, the other inventions described by the Examiner might be rejoined or I will have the right to file a Divisional Application.

Similarity of invention I and invention_II

The relationship between the two active agents Glycophosphopeptical and Nigella sativa is based on disclosed commonality of the mode of operation, function and effect, rather than similarity of the active agent.

The invention as claimed has been limited to the use of the Th1 stimulating agents glycophosphopeptical and pure seeds of Nigella sativa in the manufacture of medicaments for the treatment and/or prophylaxis of asthma/allergy. They have similar therapeutic properties, utility of such

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properties and uniqueness of the selected clinical and laboratory variables that were used to assess improvement after a course of treatment.

The nature and significance of the differences between the prior art and the claimed invention as clear from the table of comparison between glycophosphopeptical or/and Nigella sativa asthma medication and current asthma preventive therapy. It is very clear that the claimed subject matter will function in an equivalent manner (last page of the report.

Following are more detailed description of the totality of evidence in relation to the uniqueness of the invention and the mutually exclusive characteristics of the inventive approach for the treatment and/or prophylaxis of asthma/allergy with the two Th1 stimulating agents (glycophosphopeptical or seeds of Nigella sativa) that was perceived through the following observations:

- 1. The same unique onset of action, magnitude and pattern of changes in clinical assessment criteria
 - during treatment with both agents.
- 2. The similarity in the laboratory main outcome of the clinical trials, in particular sputum eosinophils that are considered as the pharmacological target site.
- 3. A short-course 5-days treatment using either of the two agents resulted in the same unique long
 - term clinical remission term.
- 4. The similarity in the dosage and duration of the treatment that was effective to:
- Switch-off the airway eosinophilic inflammation.
- Reduce mucus secretion and as a mucolytic agent.
- Reduce symptom scores significantly.
- Restore airways patency as measured by a Pulmonary Function Test.

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Such treatment is unknown and totally unexpected from the prior art. Statistical analysis of results of clinical trial will be sent by mail.

5. The most important and unique achievement is a corresponding permanent effect both for glycophosphopeptical and Nigella sativa has been experimentally verified, in respect of the treatment of allergic rhinosinusitis, by means of X-ray photographs of the paranasal sinuses of patients subjected to corresponding treatments.

Annex I shows copies of two X-ray photographs, the top one showing the paranasal sinuses of a patient suffering from allergic rhino-sinusitis who had previously undergone conventional therapy, but before the inventive treatment with glycophosphopeptical, and the bottom one is a corresponding X-ray after the inventive treatment. From the bottom photo it can be seen that the treatment led to very good resolution of the mucosal thickening of the right maxillary antrum, better aeration of the nasal cavity and mild-moderate resolution of the turbinate hypertropphy.

Annex II shows copies of two X-ray photographs, the top one showing the paranasal sinuses of a patient suffering from chronic allergic rhinosinusitis and asthma who had previously undergone conventional therapy, but before the inventive treatment with Nigella sativa, and the bottom one is a corresponding X-ray after the inventive treatment. From the bottom photo it can be seen that the treatment led to good resolution of the mucosal thickening of the right and left maxillary antrum, better aeration of the nasal cavity and good resolution of the turbinate hypertropphy

Annex III is a copy of a review article, published in 2003, regarding the treatment of allergic rhinitis by intranasal steroid sprays, which is regarded as the best conventional treatment. This article mentions only an improvement in patient symptoms. These conventional treatments do not lead to resolution of the mucosal thickening, as is produced by the inventive treatments, and seen in Annex I and Annex II, bottom photographs.

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The inventive treatments with both glycophosphopetical and Nigella sativa are hence characterized by a common effect differentiating them from conventional treatments.

Newly-introduced Annex III attests that the best known treatment with corticosteroids merely provide symptomatic relief.

Unity of Invention

Each of the aspects of the invention — Th1 stimulating agent selected from glycophosphopeptical and Nigella sativa seeds — thus provides a common contribution over the state of the art, when considered in the overall context of the claims.

In actual fact, the development of the whole invention and the linked hypothesis occurred as a single jigsaw puzzle, the different parts were placed one-by-one to form a masterpiece that resolves an international enigma! Without the guiding lights of each step it is rather impossible to complete the whole masterpiece. This is the factor underlies the success of my invention to produce a successful treatment for a chronic disabling disease (as considered by the FDA) when others fail; I find it rather difficult to cut it into pieces and bits!

This common contribution could be expressed in an additional claim:

Use of a Th1 stimulating agent selected from glycophosphopeptical and pure seeds of Nigella sativa in the manufacture of a medicament for the treatment and/or prophylaxis of asthma/allergy in a mammal such as a human, wherein the medicament is presented in a form for short term therapy by administration over a period 3 to 30 days, preferably over 5 days, to produce a long term clinical remission over a period of months.

Similarity of invention II and invention III, IV and V

Invention II and III are related as a product and process of use. Both are classified in the same class 424 in the Office Action. The process is not more

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than a technique that that was used to define the invention. In this product claim I have used a novel process as one of the criteria of the invention and one design for its use; the novel nonobvious product was used to obtain a novel end result.

If the Examiner will accept my argument above then the different uses of the allowed product claim will be rejoined in relation to invention III, IV and V in relation to invention II

The end of the report

Table: Comparison between (Ngbudgan-(Clycophesphoppden)) astima medication and current preventive astima therapy that brings effective control of symptoms and spares oral steroid use

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Ref 3: Faby J. V. Reducing IgE levels as a strategy for the breatment of astuma. Cân Bop Allergy 2005; 30 (Suppl 1): 16-21.

Ref A: Robert a., at al. Zafrikkasi improves ostlima symptoms and quality of tife in potiania with moderate reversible for the decomplication of a submanian and reversible reversible reversible for the feet of low does become the reversible for the feet of reversible for the feet of low does become the feet of the feet of the feet of low does become feet feet of feet of the f

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	09/944,564	NASSIEF, NIDA ABDUL-GHANI			
Office Action Summary	Examiner	Art Unit			
	Patrick T. Lewis	1623			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time input be available under the provisions of 37 CER 1.138(s). In no event, however, may a reply be limitely filed.					
- Extensions of time input by available under the provisions of 37 (ER 1.138(a). In no event, however, may a reply be timely filled after 51X (6) MONTHS from the mailing date of this communication. If the period for reply specified effects it sets than thirty (30) days, a roply within the statutory minimum of thirty (30) days will be considered timely. If NO period for reply is specified above, the maximum statutory period will apply and will expire \$1X (6) MONTHS from the mailing date of this communication to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filled, may reduce any semial patent term adjustment. See 37 CER 1.704(b).					
Status					
1) Responsive to communication(s) filed on 11 Fe	ebruary 2004.				
2a) This action is FINAL . 2b) ⊠ This	ection is non-final.				
3) Since this application is in condition for allowar	nce except for formal m	atters, prosecution as to the merits is			
closed in accordance with the practice under E	x parte Queyle, 1935 (.D. 11, 453 O.G. 213.			
Disposition of Claims					
4)⊠ Claim(s) <u>25-34</u> is/are pending in the application	١.				
4)(X) Claim(s) 25-34 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6) Claim(s) is/are allowed.					
7) Claim(s) is/are objected to.					
8) Claim(s) 25-34 are subject to restriction and/or election requirement.					
Application Papers					
9) The specification is objected to by the Examiner.					
10)☐ The drawing(s) filed on Is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(s).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)	ı	·			
1) Notice of References Cited (PTO-892)	4) 🔲 Interview	v Summary (PTO-413)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper N	o(a)/Mali Dale			
Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Natice of 6) Other: _	f Informel Patent Application (PTO-152) 			
S. Patent and Trademark Office TOL-326 (Rev. 1-04)	lion Summary	Part of Pener No (Meil Oate 05052004			

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